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Docket No.: 34650-00179USC2
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Karl H. Torbjorn, Gardenfors et al.

Application No.: 10/626025

Group Art Unit: 2635

Filed: July 24, 2003

Examiner: B. A. Zimmerman

For: RADIO TRANSCEIVER ON A CHIP

TRANSMITTAL LETTER

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

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Dated: March 7, 2005

Signature:

(Linda Lee Andujar)

Dear Sir:

Enclosed are the following items for filing in connection with the above-referenced Patent Application:

1. Information Disclosure Statement (1 page) and
2. IDS (Citation) by Applicant (42 References) (2 pages).

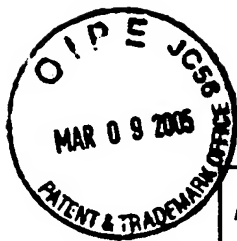
Please charge our Deposit Account No. 10-0447 in the amount of \$180.00 covering the required fees. The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 10-0447, under Order No. 34650-00179USC2. A duplicate copy of this paper is enclosed.

Dated: March 7, 2005

Respectfully submitted

By 
Ross T. Robinson

Registration No.: 47,031
JENKENS & GILCHRIST, A PROFESSIONAL
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1445 Ross Avenue, Suite 3200
Dallas, Texas 75202
(214) 855-4500
Attorneys For Applicant



PTO/SB/17 (12-04v2)

Approved for use through 7/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no person are required to respond to a collection of information unless it displays a valid OMB control number.

Effective on 12/08/2004. Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818). FEE TRANSMITTAL For FY 2005		Complete if Known	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		Application Number	10/626025-Conf. #1268
TOTAL AMOUNT OF PAYMENT (\$) 180.00		Filing Date	July 24, 2003
		First Named Inventor	Karl H. Torbjorn, Gardenfors
		Examiner Name	B. A. Zimmerman
		Art Unit	2635
		Attorney Docket No.	34650-00179USC2

METHOD OF PAYMENT (check all that apply)	
<input type="checkbox"/> Check	<input type="checkbox"/> Credit Card
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<input checked="" type="checkbox"/> Deposit Account	Deposit Account Number: 10-0447
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<input checked="" type="checkbox"/> Charge fee(s) indicated below	<input type="checkbox"/> Charge fee(s) indicated below, except for the filing fee
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FEE CALCULATION							
1. BASIC FILING, SEARCH, AND EXAMINATION FEES							
Application Type	Filing Fees	Small Entity	Search Fees	Small Entity	Examination Fees	Small Entity	Fees Paid (\$)
	Fee (\$)	Fee (\$)	Fee (\$)	Fee (\$)	Fee (\$)	Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	
2. EXCESS CLAIM FEES							
Fee Description						Small Entity	
						Fee (\$)	Fee (\$)
Each claim over 20 (including Reissues)						50	25
Each independent claim over 3 (including Reissues)						200	100
Multiple dependent claims						360	180
Total Claims	Extra Claims	Fee (\$)	Fee Paid (\$)	Multiple Dependent Claims			
	- =	x	=	Fee (\$)		Fee Paid (\$)	
Indep. Claims	Extra Claims	Fee (\$)	Fee Paid (\$)				
	- =	x	=				
3. APPLICATION SIZE FEE							
If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).							
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)			
	- 100 =	/50	(round up to a whole number) x	=			
4. OTHER FEE(S)							
Non-English Specification, \$130 fee (no small entity discount)						Fees Paid (\$)	
Other (e.g., late filing surcharge): 1806 Submission of an Information Disclosure Statement						180.00	

SUBMITTED BY			
Signature		Registration No. (Attorney/Agent)	47,031
Name (Print/Type)	Ross T. Robinson	Telephone	(214) 965-7300
		Date	March 7, 2005

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Dated: March 7, 2005	Signature: (Linda Lee Andujar)



CUSTOMER NO. 23932

Docket No.: 34650-00179USC2
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In re Patent Application of:
Karl H. Torbjorn, Gardenfors et al.

Application No.: 10/626025

Confirmation No.: 1268

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Art Unit: 2635

For: RADIO TRANSCEIVER ON A CHIP

Examiner: B. A. Zimmerman

INFORMATION DISCLOSURE STATEMENT (IDS)

MS Amendment
Commissioner for Patents
P.O. Box 1450
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Dated: March 7, 2005

Signature: *Linda Lee Andujar*

(Linda Lee Andujar)

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed more than three months after the U.S. filing date, OR more than three months after the date of entry of the national stage of a PCT application, AND after the mailing date of the first Office Action on the merits, whichever occurs first, but before the mailing date of a Final Office Action or Notice of Allowance (37 CFR 1.97(c)).

A copy of each reference on the PTO/SB/08 is attached.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing

of this Information Disclosure statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

Please charge our Deposit Account No. 10-0447 in the amount of \$180.00 covering the fee set forth in 37 CFR 1.17(p). The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 10-0447, under Order No. 34650-00179USC2. A duplicate copy of this paper is enclosed.

Dated: March 7, 2005

Respectfully submitted,

By 

Ross T. Robinson

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(214) 855-4500

Attorneys For Applicant

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete If Known	
				Application Number	10/626025-Conf. #1268
				Filing Date	July 24, 2003
				First Named Inventor	Karl H. Torbjorn, Gardenfors
				Art Unit	2635
				Examiner Name	B. A. Zimmerman
Sheet	2	of	2	Attorney Docket Number	34650-00179USC2

	C5	BROADCOM "BCM2002X 2.4GHz Bluetooth Frac-N-Radio" Product Brief	
	C6	PIETRO ANDREANI et al. "A CMOS gm-C IF Filter for Bluetooth", in Proceedings of CICC 2000, paper 18-6, May 2000, 4 pages	
	C7	JAN CROLS et al., "A Single-Chip 900 MHz CMOS Receiver Front-End with a High Performance Low-IF Topology", IEEE Journal of Solid-State Circuits, Vol. 30, No. 12, December 1995, Katholieke Universiteit Leuven, Heverlee, Belgium	
	C8	ASAD A. ABIDI, "Direct-Conversion Radio Transceivers for Digital Communications," IEEE Journal of Solid-State Circuits, Vol. 30, No. 12, December 1995, Katholieke Universiteit Leuven, Heverlee, Belgium, pp. 1390-1411	
	C9	M. STEYAERT, "A 1-GHz Single-Chip Quadrature Modulator", IEEE Journal of Solid-State Circuits, Vol. 27, No. 8, August 1992, pps. 1194-1197	
	C10	JACK P.F. GLAS, "Digital I/Q Imbalance Compensation in a Low-IF Receiver" IEEE Globecom, pp 1461-1466, Nov. 1998	
	C11	VITO BOCCUZZI et al., "Testing the Double Low-IF Receiver Architecture" Proceedings of the CICC, IEEE, 1997, pp. 521-524	
	C12	VALKAMA et al., "BSS Based I/Q Imbalance Compensation in Communication Receivers in the Presence of Symbol Timing Errors", Proc. Second Int. Workshop Independent Component Analysis Blind Signal Separation, Helsinki, Finland, June 2000, pp. 393-398.	
	C13	J. SEVENHANS et al., "An Analog Radio Front-end Chip Set for a 1.9 GHz Mobile Radio Telephone Application" 1994 IEEE International Solid-State Circuits Conference, February 16, 1994	
	C14	J.O. VOORMAN "Continuous-time analog integrated filters" Integrated Continuous-Time Filters, New York IEEE Press, 1993	
	C15	JAN CROLS et al., "An Analog Integrated Polyphase Filter for a High Performance Low-IF Receiver", 1995 Symposium on VLSI Circuits Digest of Technical Papers, Katholieke Universiteit Leuven, Heverlee, Belgium	
	C16	M.J. GINGELL, "Single Sideband Modulation using Sequence Asymmetric Polyphase Networks" Electrical Communication - Volume 48, Number 1 and 2 - 1973	
	C17	STEPHEN A. JANTZI, "A Fourth-Order Bandpass Sigma-Delta Modulator", IEEE Journal of Solid-State Circuits, Vol. 28, No. 3, March 1993	
	C18	JAN CROLS et al., "A 1.5 GHz Highly Linear CMOS Downconversion Mixer" IEEE Journal of Solid-State Circuits, Vol 30, No. 7, July 1993	
	C19	TRUDY D. STETZLER ET AL., "A 2.7-4.5 V Single Chip GSM Transceiver RF Integrated Circuit, IEEE Journal of Solid-State Circuits, Vol. 30, No. 12, December 1995	
	C20	FLOYD M. GARDNER, "Phaselock Techniques, "Phaselock Receivers and Transponders" ISBN: 0-471-04294-3, April 1979	

*EXAMINER: Initial if information considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
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